

109TH CONGRESS
2D SESSION

H. R. 5658

To facilitate the development of markets for alternative fuels and Ultra Low Sulfur Diesel fuel through research, development, and demonstration and data collection.

IN THE HOUSE OF REPRESENTATIVES

JUNE 21, 2006

Mr. GORDON introduced the following bill; which was referred to the
Committee on Science

A BILL

To facilitate the development of markets for alternative fuels and Ultra Low Sulfur Diesel fuel through research, development, and demonstration and data collection.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. FINDINGS.**

4 The Congress finds that—

5 (1) in order to lessen United States dependence
6 on foreign sources of petroleum, and decrease de-
7 mand for petroleum in the transportation sector, the
8 Nation must diversify its fuel supply to include do-
9 mestically produced alternative biobased fuels;

1 (2) introduction of alternative biobased fuels
2 presents a unique set of problems that may render
3 the fuels incompatible with the current fuel trans-
4 portation and delivery infrastructure, placing the
5 burden of costly refurbishment and construction on
6 fuel distributors and retailers;

7 (3) chemical additives to the fuels may mitigate
8 the negative impacts of biobased fuels on existing in-
9 frastructure and preclude costly retrofitting or in-
10 stallation of new biobased fuel compatible infrastruc-
11 ture and transportation systems;

12 (4) in order to mitigate air pollution and com-
13 ply with Federal mandates, Ultra Low Sulfur Diesel
14 fuel is being introduced into the marketplace in
15 2006;

16 (5) fuel labeled Ultra Low Sulfur Diesel can ac-
17 cumulate more than the statutory limit of 15 parts
18 per million of sulfur when transported through mul-
19 tiple pipelines, tanks, and trucks to the final point
20 of sale; and

21 (6) fuel distributors and retailers may inadvert-
22 ently take delivery of fuel labeled Ultra Low Sulfur
23 Diesel with more than 15 parts per million of sulfur
24 without a practical means of verifying sulfur con-
25 tent.

1 **SEC. 2. ALTERNATIVE FUEL AND ULSD INFRASTRUCTURE**
2 **AND ADDITIVES RESEARCH AND DEVELOP-**
3 **MENT.**

4 The Secretary of Energy (in this Act referred to as
5 the “Secretary”) , in consultation with the National Insti-
6 tute of Standards and Technology, shall carry out a pro-
7 gram of research, development, demonstration, and com-
8 mercial application of materials to be added to alternative
9 biobased fuels and Ultra Low Sulfur Diesel fuels to make
10 them more compatible with existing infrastructure used to
11 store and deliver petroleum-based fuels to the point of
12 final sale. The program shall address—

- 13 (1) materials to prevent or mitigate—
- 14 (A) corrosion of metal, plastic, rubber,
15 cork, fiberglass, glues, or any other material
16 used in pipes and storage tanks;
- 17 (B) dissolving of storage tank sediments;
- 18 (C) clogging of filters;
- 19 (D) contamination from water or other
20 adulterants or pollutants;
- 21 (E) poor flow properties related to low
22 temperatures;
- 23 (F) oxidative and thermal instability in
24 long-term storage and use;
- 25 (G) increased volatile emissions;
- 26 (H) microbial contamination;

1 (I) problems associated with electrical con-
2 ductivity; and

3 (J) increased nitrogen oxide emissions;

4 (2) alternatives to conventional methods for re-
5 furbishment and cleaning of gasoline and diesel
6 tanks, including tank lining applications; and

7 (3) other problems as identified by the Sec-
8 retary in consultation with the National Institute of
9 Standards and Technology.

10 **SEC. 3. SULFUR TESTING FOR DIESEL FUELS.**

11 (a) PROGRAM.—The Secretary, in consultation with
12 the National Institute of Standards and Technology, shall
13 carry out a research, development, and demonstration pro-
14 gram on portable, low-cost, and accurate methods and
15 technologies for testing of sulfur content in fuel, including
16 Ultra Low Sulfur Diesel and Low Sulfur Diesel.

17 (b) SCHEDULE OF DEMONSTRATIONS.—Not later
18 than 1 year after the date of enactment of this Act, the
19 Secretary shall begin demonstrations of technologies under
20 subsection (a).

21 **SEC. 4. STANDARD REFERENCE MATERIALS AND DATA**
22 **BASE DEVELOPMENT.**

23 Not later than 6 months after the date of enactment
24 of this Act, the National Institute of Standards and Tech-
25 nology shall develop a physical properties data base and

1 standard reference materials for alternative fuels. Such
2 data base and standard reference materials shall be main-
3 tained and updated as appropriate as additional alter-
4 native fuels become available.

